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FEDERAL-STATE-PRIVATE
COOPERATIVE SNOW SURVEYS

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WATER SUPPLY OUTLOOK FOR MONTANA

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Prepared by
U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE
Collaborating with
MONTANA AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies named above in cooperation with Federal, State, and private organizations listed on the inside back cover of this report.

AS OF
MAR. 1, 1971

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters of key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	12417 Federal Building, Denver, Colorado 80202
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR MONTANA

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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TABLE OF CONTENTS

	Page
MONTANA WATER SUPPLY OUTLOOK	1-2
SUMMARY OF SNOW MEASUREMENTS	3
SOIL MOISTURE	4
RESERVOIR STORAGE	5
STREAMFLOW FORECASTS	6-12
SNOW	13-19
MAP OF SNOW COURSES AND SOIL MOISTURE STATIONS	
COOPERATORS	Inside Back Cover

MONTANA WATER SUPPLY OUTLOOK

March 1, 1971

* * * * *
*
* Snowfall during February was not exceptionally *
* heavy over most of the state, but almost all *
* snow courses have an above average snow pack. *
* Many snow courses are near or above their *
* April 1 average. Some snow courses in south- *
* western Montana have a maximum snow pack of *
* record for this date. *
*
* * * * *

COLUMBIA RIVER DRAINAGE

Snow - All Columbia River drainages in Montana, including the Kootenai, have a snow pack between 120 and 125 percent average. In general, snow cover is between 125 and 145 percent of last year.

Soil moisture is average to above average.

Streamflow - On the Kootenai River and portions of the Bitterroot River, streamflow is forecast to be a little above average. Streams in the upper Clark Fork are expected to produce 10 to 25 percent more than normal runoff. In the Flathead, streamflow is expected to be 10 to 20 percent above average. Runoff is expected to exceed last year's flows on all streams.



The following table shows the results of the experiment. The first column lists the different conditions tested, and the second column shows the corresponding values. The data indicates that the system performs best under certain conditions, while showing a decline in performance under others. These findings are crucial for understanding the system's capabilities and limitations.

Condition	Value
Condition A	1.2
Condition B	0.8
Condition C	1.5
Condition D	0.9
Condition E	1.1
Condition F	0.7
Condition G	1.3
Condition H	0.6
Condition I	1.4
Condition J	0.5

These results suggest that the system is most effective when operating under conditions A, C, and E. Further research is needed to explore the reasons behind these trends and to optimize the system's performance across all tested conditions.

MISSOURI RIVER DRAINAGE

Snow - The snow pack is record or near record in the southwestern Montana drainages. The three headwater tributaries to the Missouri River have a snow pack about 140 percent average and 10 to 50 percent more than last year. The snow pack on the remainder of the drainage is 130 to 140 percent average.

Streamflow - In general, forecasts are for volumes near or above those of last year. Runoff in major streams in southwestern Montana is forecast to be about 40 percent above average. Streams in the Beaverhead River are forecast to produce nearly twice their normal volume. Well above average flows are expected from the mountainous areas of central Montana. Streams north of Helena, originating along the Continental Divide are forecast to produce between 10 and 20 percent above average flows.

Soil moisture is near to above average.

YELLOWSTONE RIVER DRAINAGE

Snow - The snow pack is heavy over most of the Yellowstone River and Little Bighorn River headwaters. The snow pack is near average in the Red Lodge area only.

Soil moisture generally is near average.

Streamflow - All streams in the Yellowstone River drainage, with the exception of those in the immediate vicinity of Red Lodge are expected to produce 30 to 40 percent above average flows.

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF:	
		Last Year	Average

COLUMBIA RIVER DRAINAGE

Kootenai	16	134	116
Flathead	19	126	120
Upper Clark Fork	26	143	122
Lower Clark Fork	10	135	122
Bitterroot	12	136	122

MISSOURI RIVER DRAINAGE

Jefferson	22	156	138
Madison	16	144	138
Gallatin	13	109	140
Missouri Main Stem	11	125	135
Judith-Musselshell	8	94	127
Marias-Teton-Sun	6	166	132
Milk (Headwaters)	2	156	140

YELLOWSTONE RIVER DRAINAGE

Yellowstone	28	125	146
Little Bighorn	7	97	128

SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average †

COLUMBIA RIVER BASIN

Kootenai

Baree Trail	3800	48	7.5	2/27	6.4	6.3	6.4
Murphy Lake R. S.	3000	48	22.6	2/26	20.6	19.3	20.7
Raven R. S.	3050	48	23.0	3/03	16.3	-	20.6

Flathead

Desert Mountain	5600	54	8.4	2/26	8.5	6.4	7.3
Marias Pass	5250	54	6.5	2/27	6.7	4.6	5.4

Clark Fork

Black Pine	7100	48	10.0	2/25	7.8	7.4	7.3
Lubrecht Forest	4100	48	26.8	3/01	16.4	-	-
Seeley Lake R. S.	4030	48	11.9	3/04	11.1	5.9	7.8
Skalkaho Summit	7260	48	10.8	2/23	10.2	9.6	9.7

Bitterroot

Gibbons Pass	7100	48	7.1	3/01	6.0	3.5	5.3
Lolo Pass	5250	48	10.6	3/03	6.5	5.0	6.3

MISSOURI RIVER BASIN

Beaverhead

Lakeview	6700	48	15.3	3/01	6.4	-	7.7
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Madison

West Yellowstone	6700	48	6.5	2/28	2.9	2.0	2.5
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Gallatin

Bridger Bowl	7250	48	17.0	2/26	16.6	16.4	16.2
College Site No. 2	4856	54	14.5	2/26	16.1	16.0	13.6
Lick Creek	6860	48	18.8	2/24	17.4	17.1	16.7
Twenty-One Mile	7150	48	10.0	2/28	5.8	1.8	3.6

Missouri Main Stem

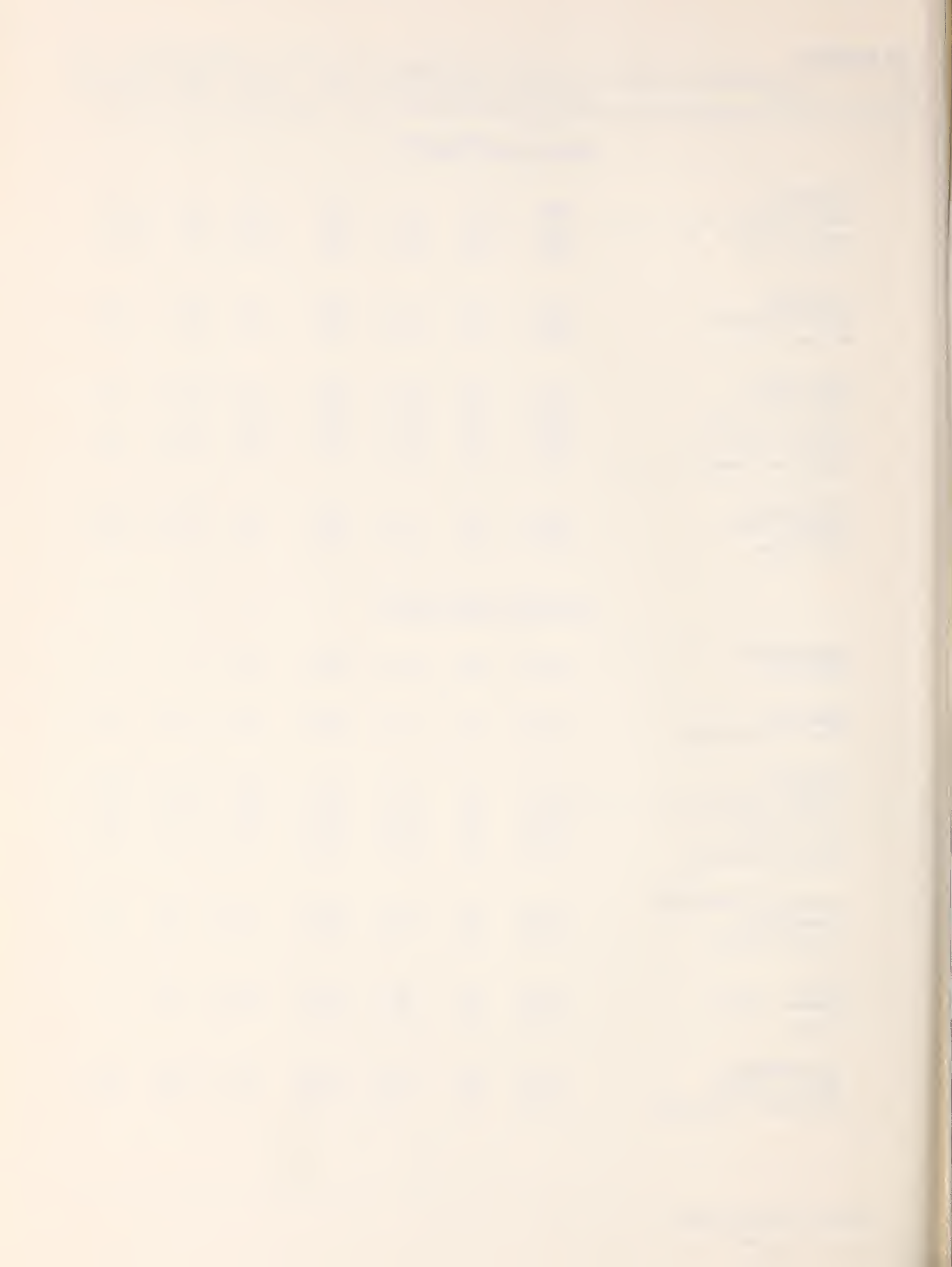
Kings Hill	7420	48	11.8	2/26	5.0	6.5	6.7
Stemple Pass	6350	48	5.9	3/05	3.8	3.4	4.0

Milk

Beaver Creek	3950	48	10.9	3/03	15.5	8.5	-
Rocky	4700	36	10.1	3/03	7.5	7.1	-

Yellowstone

Battle Ridge	6020	48	17.6	2/26	16.6	13.3	13.5
Northeast Entrance	7350	48	9.4	2/28	5.1	4.9	6.1



RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average

COLUMBIA RIVER BASIN

Flathead	Hungry Horse	3,428.0	2,111.0	2,038.0	2,269.0
	Flathead Lake	1,791.0	926.7	908.7	963.0
	Camas (4)	45.2	21.5	18.5	28.6
	Mission Valley (8)	100.3	41.7	24.7	32.7
Clark Fork	Georgetown Lake	31.0	26.6	25.8	23.6
	Noxon Rapids	334.6	331.4	313.6	293.4
	Nevada Creek	12.6		6.2	4.9
Bitterroot	Como	34.9	11.7	12.2	11.6
	Painted Rocks	31.7	25.5	19.3	20.9

MISSOURI RIVER BASIN

Beaverhead	Clark Canyon	328.9	137.7	142.7	129.5
	Lima	84.0	42.1	44.5	22.9
Ruby	Ruby	38.8	29.6	32.4	26.5
Madison	Hebgen Lake	377.5	266.5	266.1	170.7
	Ennis Lake	41.0	34.8	35.6	37.7
Gallatin	Middle Creek	8.0	4.5	4.1	3.6
Missouri	Canyon Ferry	2,043.0	1,577.0	1,632.0	1,562.0
	Hauser & Helena	61.9	61.9	62.5	57.1
	Lake Helena	10.4	10.4	10.7	8.8
	Holter Lake	81.9	80.6	73.5	54.3
	Smith River	10.7	6.1	5.1	6.3
	Durand	7.0	5.3	3.6	4.4
	Martinsdale	23.1	9.3	4.8	6.4
	Deadman's Basin	72.2	55.0	28.9	46.1
	Fort Peck	19,410.0	16,330.0	16,050.0	10,900.0
	Gibson	105.0	42.9	17.2	49.4
	Willow Creek	32.3	22.9	18.5	20.8
	Pishkun	32.0	17.0	17.4	17.7
Marias	Lower Two Medicine	16.6		-	0.0
	Four Horns	19.2		-	12.1
	Swift	30.0	17.1	-	19.7
	Lake Frances	112.0	86.0	82.8	83.5
	Tiber	1,347.0	483.4	527.3	628.0
Milk	Fresno	127.2	80.2	65.7	59.4
	Nelson	66.8	48.3	46.3	41.0
	Lake Sherburne	66.1	21.9	17.6	20.6
Yellowstone	Mystic Lake	20.8	5.9	5.4	7.7
	Tongue River	68.0	47.5	32.6	22.8
	Cooney	27.5	17.3	14.9	14.3
Bighorn	Bighorn Lake	1,356.0	912.5	695.9	586.8

1. Name		2. Address		3. City		4. State		5. Zip	
Mr. J. H. Smith		1234 Main St.		Chicago		Ill.		60601	
Mrs. A. B. Jones		5678 Oak St.		Chicago		Ill.		60602	
Dr. C. D. Brown		9012 Elm St.		Chicago		Ill.		60603	
Mr. E. F. Green		3456 Pine St.		Chicago		Ill.		60604	
Ms. G. H. White		7890 Maple St.		Chicago		Ill.		60605	
Mr. I. J. Black		2345 Cedar St.		Chicago		Ill.		60606	
Mrs. K. L. Gray		6789 Birch St.		Chicago		Ill.		60607	
Dr. M. N. Hall		10110 Spruce St.		Chicago		Ill.		60608	
Mr. O. P. Young		4321 Ash St.		Chicago		Ill.		60609	
Ms. Q. R. King		8765 Willow St.		Chicago		Ill.		60610	
Mr. S. T. Lee		21098 Hickory St.		Chicago		Ill.		60611	
Mrs. U. V. Scott		54321 Dogwood St.		Chicago		Ill.		60612	
Dr. W. X. Baker		98765 Magnolia St.		Chicago		Ill.		60613	
Mr. Y. Z. Adams		12345 Sycamore St.		Chicago		Ill.		60614	
Ms. A. B. Nelson		67890 Redwood St.		Chicago		Ill.		60615	
Mr. C. D. Carter		10987 Juniper St.		Chicago		Ill.		60616	
Mrs. E. F. Evans		43210 Cypress St.		Chicago		Ill.		60617	
Dr. G. H. Hill		87654 Palm St.		Chicago		Ill.		60618	
Mr. I. J. King		21098 Olive St.		Chicago		Ill.		60619	
Ms. K. L. Scott		54321 Laurel St.		Chicago		Ill.		60620	
Mr. M. N. Adams		98765 Birch St.		Chicago		Ill.		60621	
Mrs. O. P. Baker		12345 Cedar St.		Chicago		Ill.		60622	
Dr. Q. R. Carter		67890 Elm St.		Chicago		Ill.		60623	
Mr. S. T. Evans		10987 Maple St.		Chicago		Ill.		60624	
Ms. U. V. Hill		43210 Oak St.		Chicago		Ill.		60625	
Mr. W. X. King		87654 Pine St.		Chicago		Ill.		60626	
Mrs. Y. Z. Scott		21098 Spruce St.		Chicago		Ill.		60627	
Dr. A. B. Adams		54321 Ash St.		Chicago		Ill.		60628	
Mr. C. D. Baker		98765 Birch St.		Chicago		Ill.		60629	
Ms. E. F. Carter		12345 Cedar St.		Chicago		Ill.		60630	
Mr. G. H. Evans		67890 Elm St.		Chicago		Ill.		60631	
Mrs. I. J. Hill		10987 Maple St.		Chicago		Ill.		60632	
Dr. K. L. King		43210 Oak St.		Chicago		Ill.		60633	
Mr. M. N. Scott		87654 Pine St.		Chicago		Ill.		60634	
Ms. O. P. Adams		21098 Spruce St.		Chicago		Ill.		60635	
Mr. Q. R. Baker		54321 Ash St.		Chicago		Ill.		60636	
Mrs. S. T. Carter		98765 Birch St.		Chicago		Ill.		60637	
Dr. U. V. Evans		12345 Cedar St.		Chicago		Ill.		60638	
Mr. W. X. Hill		67890 Elm St.		Chicago		Ill.		60639	
Ms. Y. Z. King		10987 Maple St.		Chicago		Ill.		60640	
Mr. A. B. Scott		43210 Oak St.		Chicago		Ill.		60641	
Mrs. C. D. Adams		87654 Pine St.		Chicago		Ill.		60642	
Dr. E. F. Baker		21098 Spruce St.		Chicago		Ill.		60643	
Mr. G. H. Carter		54321 Ash St.		Chicago		Ill.		60644	
Ms. I. J. Evans		98765 Birch St.		Chicago		Ill.		60645	
Mr. K. L. Hill		12345 Cedar St.		Chicago		Ill.		60646	
Mrs. M. N. King		67890 Elm St.		Chicago		Ill.		60647	
Dr. O. P. Scott		10987 Maple St.		Chicago		Ill.		60648	
Mr. Q. R. Adams		43210 Oak St.		Chicago		Ill.		60649	
Ms. S. T. Baker		87654 Pine St.		Chicago		Ill.		60650	
Mr. U. V. Carter		21098 Spruce St.		Chicago		Ill.		60651	
Mrs. W. X. Evans		54321 Ash St.		Chicago		Ill.		60652	
Dr. Y. Z. Hill		98765 Birch St.		Chicago		Ill.		60653	
Mr. A. B. King		12345 Cedar St.		Chicago		Ill.		60654	
Ms. C. D. Scott		67890 Elm St.		Chicago		Ill.		60655	
Mr. E. F. Adams		10987 Maple St.		Chicago		Ill.		60656	
Mrs. G. H. Baker		43210 Oak St.		Chicago		Ill.		60657	
Dr. I. J. Carter		87654 Pine St.		Chicago		Ill.		60658	
Mr. K. L. Evans		21098 Spruce St.		Chicago		Ill.		60659	
Ms. M. N. Hill		54321 Ash St.		Chicago		Ill.		60660	
Mr. O. P. King		98765 Birch St.		Chicago		Ill.		60661	
Mrs. Q. R. Scott		12345 Cedar St.		Chicago		Ill.		60662	
Dr. S. T. Adams		67890 Elm St.		Chicago		Ill.		60663	
Mr. U. V. Baker		10987 Maple St.		Chicago		Ill.		60664	
Ms. W. X. Carter		43210 Oak St.		Chicago		Ill.		60665	
Mr. Y. Z. Evans		87654 Pine St.		Chicago		Ill.		60666	
Mrs. A. B. Hill		21098 Spruce St.		Chicago		Ill.		60667	
Dr. C. D. King		54321 Ash St.		Chicago		Ill.		60668	
Mr. E. F. Scott		98765 Birch St.		Chicago		Ill.		60669	
Ms. G. H. Adams		12345 Cedar St.		Chicago		Ill.		60670	
Mr. I. J. Baker		67890 Elm St.		Chicago		Ill.		60671	
Mrs. K. L. Carter		10987 Maple St.		Chicago		Ill.		60672	
Dr. M. N. Evans		43210 Oak St.		Chicago		Ill.		60673	
Mr. O. P. Hill		87654 Pine St.		Chicago		Ill.		60674	
Ms. Q. R. King		21098 Spruce St.		Chicago		Ill.		60675	
Mr. S. T. Scott		54321 Ash St.		Chicago		Ill.		60676	
Mrs. U. V. Adams		98765 Birch St.		Chicago		Ill.		60677	
Dr. W. X. Baker		12345 Cedar St.		Chicago		Ill.		60678	
Mr. Y. Z. Carter		67890 Elm St.		Chicago		Ill.		60679	
Ms. A. B. Evans		10987 Maple St.		Chicago		Ill.		60680	
Mr. C. D. Hill		43210 Oak St.		Chicago		Ill.		60681	
Mrs. E. F. King		87654 Pine St.		Chicago		Ill.		60682	
Dr. G. H. Scott		21098 Spruce St.		Chicago		Ill.		60683	
Mr. I. J. Adams		54321 Ash St.		Chicago		Ill.		60684	
Ms. K. L. Baker		98765 Birch St.		Chicago		Ill.		60685	
Mr. M. N. Carter		12345 Cedar St.		Chicago		Ill.		60686	
Mrs. O. P. Evans		67890 Elm St.		Chicago		Ill.		60687	

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average

COLUMBIA RIVER BASIN

FISHER RIVER					
Libby (near)	320	107	Apr-Sept	232	298
	305	108	Apr-July	218	281
KOOTENAI RIVER					
Libby (at)	8300	103	Apr-Sept	5362	8025
	7300	105	Apr-July	4628	6956
YAAK RIVER					
Troy (near)	625	109	Apr-Sept	408	573
	605	110	Apr-July	390	549
KOOTENAI RIVER					
Leonia (at)	9600	104	Apr-Sept	6256	9198
	8500	105	Apr-July	5409	8072
	6800	105	Apr-June	4494	6463
RACETRACK CREEK					
Anaconda (near)	37.6	110	Apr-Sept	37.7	34.1
	30.5	110	Apr-July	30.6	27.6
FLINT CREEK					
Boulder Creek (below)(3)	78.0	112	Apr-Sept	78.4	69.6
	63.0	114	Apr-July	61.3	55.1
MIDDLE FORK ROCK CREEK					
Philipsburg (near)	89.0	121	Apr-Sept	81.5	73.4
	81.0	122	Apr-July	73.3	66.2
NEVADA CREEK					
Finn (near)	29.5	143	Apr-Sept		20.7
	27.5	143	Apr-July		19.3
BLACKFOOT RIVER					
Bonner (near)	1240	123	Apr-Sept	977	1008
	1140	125	Apr-July	884	912
	990	125	Apr-June	768	788
CLARK FORK RIVER					
Milltown (above)(4)	920	122	Apr-Sept	789	755
	820	125	Apr-July	705	659
	705	125	Apr-June	575	562
CLARK FORK RIVER					
Missoula (above)	2160	123	Apr-Sept	1786	1763
	1960	125	Apr-July	1590	1572
	1695	125	Apr-June	1343	1350

(3) Sum Flint Creek at Maxville and Boulder Creek at Maxville.

(4) Difference in observed flow Clark Fork above Missoula and Blackfoot near Bonner.

Date					Description
Year	Month	Day	Hour	Minute	
1900	1	1	1	1	1
1900	1	2	1	1	2
1900	1	3	1	1	3
1900	1	4	1	1	4
1900	1	5	1	1	5
1900	1	6	1	1	6
1900	1	7	1	1	7
1900	1	8	1	1	8
1900	1	9	1	1	9
1900	1	10	1	1	10
1900	1	11	1	1	11
1900	1	12	1	1	12
1900	2	1	1	1	1
1900	2	2	1	1	2
1900	2	3	1	1	3
1900	2	4	1	1	4
1900	2	5	1	1	5
1900	2	6	1	1	6
1900	2	7	1	1	7
1900	2	8	1	1	8
1900	2	9	1	1	9
1900	2	10	1	1	10
1900	2	11	1	1	11
1900	2	12	1	1	12
1900	3	1	1	1	1
1900	3	2	1	1	2
1900	3	3	1	1	3
1900	3	4	1	1	4
1900	3	5	1	1	5
1900	3	6	1	1	6
1900	3	7	1	1	7
1900	3	8	1	1	8
1900	3	9	1	1	9
1900	3	10	1	1	10
1900	3	11	1	1	11
1900	3	12	1	1	12
1900	4	1	1	1	1
1900	4	2	1	1	2
1900	4	3	1	1	3
1900	4	4	1	1	4
1900	4	5	1	1	5
1900	4	6	1	1	6
1900	4	7	1	1	7
1900	4	8	1	1	8
1900	4	9	1	1	9
1900	4	10	1	1	10
1900	4	11	1	1	11
1900	4	12	1	1	12
1900	5	1	1	1	1
1900	5	2	1	1	2
1900	5	3	1	1	3
1900	5	4	1	1	4
1900	5	5	1	1	5
1900	5	6	1	1	6
1900	5	7	1	1	7
1900	5	8	1	1	8
1900	5	9	1	1	9
1900	5	10	1	1	10
1900	5	11	1	1	11
1900	5	12	1	1	12
1900	6	1	1	1	1
1900	6	2	1	1	2
1900	6	3	1	1	3
1900	6	4	1	1	4
1900	6	5	1	1	5
1900	6	6	1	1	6
1900	6	7	1	1	7
1900	6	8	1	1	8
1900	6	9	1	1	9
1900	6	10	1	1	10
1900	6	11	1	1	11
1900	6	12	1	1	12
1900	7	1	1	1	1
1900	7	2	1	1	2
1900	7	3	1	1	3
1900	7	4	1	1	4
1900	7	5	1	1	5
1900	7	6	1	1	6
1900	7	7	1	1	7
1900	7	8	1	1	8
1900	7	9	1	1	9
1900	7	10	1	1	10
1900	7	11	1	1	11
1900	7	12	1	1	12
1900	8	1	1	1	1
1900	8	2	1	1	2
1900	8	3	1	1	3
1900	8	4	1	1	4
1900	8	5	1	1	5
1900	8	6	1	1	6
1900	8	7	1	1	7
1900	8	8	1	1	8
1900	8	9	1	1	9
1900	8	10	1	1	10
1900	8	11	1	1	11
1900	8	12	1	1	12
1900	9	1	1	1	1
1900	9	2	1	1	2
1900	9	3	1	1	3
1900	9	4	1	1	4
1900	9	5	1	1	5
1900	9	6	1	1	6
1900	9	7	1	1	7
1900	9	8	1	1	8
1900	9	9	1	1	9
1900	9	10	1	1	10
1900	9	11	1	1	11
1900	9	12	1	1	12
1900	10	1	1	1	1
1900	10	2	1	1	2
1900	10	3	1	1	3
1900	10	4	1	1	4
1900	10	5	1	1	5
1900	10	6	1	1	6
1900	10	7	1	1	7
1900	10	8	1	1	8
1900	10	9	1	1	9
1900	10	10	1	1	10
1900	10	11	1	1	11
1900	10	12	1	1	12
1900	11	1	1	1	1
1900	11	2	1	1	2
1900	11	3	1	1	3
1900	11	4	1	1	4
1900	11	5	1	1	5
1900	11	6	1	1	6
1900	11	7	1	1	7
1900	11	8	1	1	8
1900	11	9	1	1	9
1900	11	10	1	1	10
1900	11	11	1	1	11
1900	11	12	1	1	12
1900	12	1	1	1	1
1900	12	2	1	1	2
1900	12	3	1	1	3
1900	12	4	1	1	4
1900	12	5	1	1	5
1900	12	6	1	1	6
1900	12	7	1	1	7
1900	12	8	1	1	8
1900	12	9	1	1	9
1900	12	10	1	1	10
1900	12	11	1	1	11
1900	12	12	1	1	12

...

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
WEST FORK BITTERROOT RIVER					
Conner (near) (5)	210	123	Apr-Sept	197	170
	195	123	Apr-July	183	158
EAST FORK BITTERROOT RIVER					
Conner (near)	197	116	Apr-Sept	182	170
	180	117	Apr-July	165	154
BITTERROOT RIVER					
Darby (near)	660	118	Apr-Sept	629	558
	620	120	Apr-July	582	517
	542	120	Apr-June	493	453
SKALKAHO CREEK					
Hamilton (near)	60.0	107	Apr-Sept	55.9	55.8
	53.0	108	Apr-July	48.2	48.9
BURNT FORK CREEK					
Stevensville (near) (10)	38.0	111	Apr-Sept		34.2
	33.5	113	Apr-July		29.6
BITTERROOT RIVER					
Missoula (at) (6)	1690	115	Apr-Sept	1536	1466
	1580	116	Apr-July	1424	1360
	1360	116	Apr-June	1194	1175
CLARK FORK RIVER					
Missoula (below)	3850	119	Apr-Sept	3323	3229
	3540	121	Apr-July	3014	2932
	3055	121	Apr-June	2537	2525
ST. REGIS RIVER					
St. Regis (near)	395	119	Apr-Sept		332
	375	119	Apr-July		316
CLARK FORK RIVER					
St. Regis (at)	5250	119	Apr-Sept	4452	4398
	4810	120	Apr-July	4048	3993
	4150	120	Apr-June	3402	3451
NORTH FORK FLATHEAD RIVER					
Columbia Falls (near)	2240	111	Apr-Sept		2023
	2070	112	Apr-July		1846
	1750	112	Apr-June		1562
MIDDLE FORK FLATHEAD RIVER					
West Glacier (near)	2140	111	Apr-Sept	1878	1931
	2020	113	Apr-July	1754	1791
	1730	113	Apr-June	1555	1521
SOUTH FORK FLATHEAD RIVER					
Columbia Falls (near) (7)	2800	119	Apr-Sept	2245	2358
	2650	119	Apr-July	2128	2235
	2340	119	Apr-June	1936	1967

(5) Adjusted for storage in Painted Rocks Reservoir.

(6) Difference in observed flow Clark Fork above and below Missoula.

(7) Adjusted for storage in Hungry Horse Reservoir.

(10) Adjusted for diversion into Sunset Highline Canal.



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
FLATHEAD RIVER					
Columbia Falls (at)(7)	7300	113	Apr-Sept	5791	6467
	6860	114	Apr-July	5464	6003
	5900	114	Apr-June	4871	5155
SWAN RIVER					
Big Fork (near)	785	114	Apr-Sept	771	688
	700	115	Apr-July	691	607
	570	115	Apr-June	576	496
FLATHEAD RIVER					
Polson (near)(8)	8900	115	Apr-Sept	6828	7701
	8250	115	Apr-July	6454	7157
	7100	116	Apr-June	5674	6123
CLARK FORK RIVER					
Plains (near)(8)	14700	118	Apr-Sept	11901	12482
	13420	118	Apr-July	10977	11448
	11600	118	Apr-June	9509	9802
THOMPSON RIVER					
Thompson Falls (near)	325	115	Apr-Sept		283
	290	115	Apr-July		253
PROSPECT CREEK					
Thompson Falls (at)	175	115	Apr-Sept		152
	165	115	Apr-July		143
CLARK FORK RIVER					
Whitehorse Rapids (at)(9)	16400	117	Apr-Sept		13987
	14970	117	Apr-July		12787
	12850	117	Apr-June		10953

(7) Adjusted for storage in Hungry Horse Reservoir.

(8) Adjusted for storage in Hungry Horse Reservoir and Flathead Lake.

(9) Adjusted for storage in Hungry Horse, Flathead Lake and Noxon Rapids Reservoirs.

Item	Quantity	Unit	Price	Total
1	10	kg	1.50	15.00
2	5	kg	2.00	10.00
3	3	kg	3.00	9.00
4	2	kg	4.00	8.00
5	1	kg	5.00	5.00
6	1	kg	6.00	6.00
7	1	kg	7.00	7.00
8	1	kg	8.00	8.00
9	1	kg	9.00	9.00
10	1	kg	10.00	10.00

Grand Total: 87.00

Signature: _____

Date: _____

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average

MISSOURI RIVER BASIN

BEAVERHEAD RIVER					
Grant (near)(11)(12)	200	188	Apr-Sept	198	106
	187	208	Apr-July	173	90.0
RUBY RIVER					
Alder (near)	105	131	Apr-Sept		80.0
	90	134	Apr-July		67.0
BIG HOLE RIVER					
Melrose (near)	890	129	Apr-Sept	815	690
	830	129	Apr-July	754	642
BIRCH CREEK					
Glen (near)	17.5	134	Apr-Sept		13.1
	14.8	134	Apr-July		11.0
BOULDER RIVER					
Boulder (near)	113	143	Apr-Sept	100	78.9
	108	143	Apr-July	96.8	75.5
JEFFERSON RIVER					
Sappington (at)	1360	144	Apr-Sept		948
	1218	142	Apr-July		857
WILLOW CREEK					
Harrison (near)	22.5	145	Apr-Sept		15.5
	21.0	145	Apr-July		14.2
MADISON RIVER					
West Yellowstone (near)	266	125	Apr-Sept		212
	204	128	Apr-July		160
MADISON RIVER					
Grayling (near)(13)	557	130	Apr-Sept	502	430
	450	133	Apr-July	410	337
MADISON RIVER					
McAllister (near)(14)	1000	136	Apr-Sept	1063	734
	810	138	Apr-July	844	587
GALLATIN RIVER					
Gateway (near)	645	140	Apr-Sept	664	461
	550	140	Apr-July	572	393

(11) Adjusted for storage in Lima Reservoir.

(12) Adjusted for storage in Clark Canyon Reservoir.

(13) Adjusted for storage in Hebgen Lake.

(14) Adjusted for storage in Hebgen and Ennis Lakes.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
HYALITE CREEK					
Bozeman (near)(15)	50.5	135	Apr-Sept		37.4
	44.4	137	Apr-July		32.5
GALLATIN RIVER					
Logan (at)	695	147	Apr-Sept		473
	610	152	Apr-July		401
MISSOURI RIVER					
Toston (at)(16)	3000	143	Apr-Sept	3114	2105
	2680	146	Apr-July	2748	1836
SHEEP CREEK					
White Sulphur Springs (near)	26.8	146	Apr-Sept		18.4
	23.5	147	Apr-July		16.0
SUN RIVER					
Gibson Dam (at)(17)	705	117	Apr-Sept	555	604
	650	117	Apr-July	513	555
BELT CREEK					
Monarch (near)	160	147	Apr-Sept		109
	150	150	Apr-July		100
MISSOURI RIVER					
Fort Benton (at)(18)	4600	138	Apr-Sept		3321
	4000	141	Apr-July		2834
TWO MEDICINE CREEK					
Browning (near)(19)	295	115	Apr-Sept		256
	285	116	Apr-July		245
BADGER CREEK					
Browning (near)	151	114	Apr-Sept		133
	132	114	Apr-July		116
CUT BANK CREEK					
Cut Bank (at)	143	119	Apr-Sept		120
	132	119	Apr-July		111
MARIAS RIVER					
Shelby (near)(20)	690	114	Apr-Sept	646	604
	650	112	Apr-July	601	581

(15) Adjusted for storage in Middle Creek Reservoir.

(16) Adjusted for storage in Hebgen and Ennis Lakes and Clark Canyon Reservoir.

(17) Adjusted for storage in Gibson Reservoir and diversions.

(18) Adjusted for storage in Canyon Ferry Reservoir.

(19) Adjusted for storage in Two Medicine Reservoir and diversions into Two Medicine Canal.

(20) Adjusted for storage in Two Medicine, Four Horns, Lake Frances and Swift Reservoirs.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
MISSOURI RIVER					
Virgelle (at)(21)	5440	135	Apr-Sept		4036
	4800	137	Apr-July		3511
SOUTH FORK JUDITH RIVER					
Utica (near)	18.2	146	Apr-Sept		12.5
	17.2	147	Apr-July		11.7
MISSOURI RIVER					
Landusky (near)(21)	6000	134	Apr-Sept		4484
	5300	136	Apr-July		3889
NORTH FORK MUSSELSHELL RIVER					
Delpine (near)	7.4	134	Apr-Sept		5.5
	6.4	136	Apr-July		4.7
SOUTH FORK MUSSELSHELL RIVER					
Martinsdale (above)	57.0	123	Apr-Sept		46.2
	55.0	125	Apr-July		44.0
MISSOURI RIVER					
Fort Peck Dam (below)(22)	5850	135	Apr-Sept		4312
	5200	136	Apr-July		3824
MILK RIVER					
Eastern Crossing (at)	320	114	Mar-Sept		281
MISSOURI RIVER					
Wolf Point (near)(22)	6300	134	Apr-Sept		4683
	5650	135	Apr-July		4168
MISSOURI RIVER					
Williston, N.D. (near)(29)	15100	137	Apr-Sept		10998
	13600	138	Apr-July		9823

SASKATCHEWAN RIVER BASIN

ST. MARY RIVER				
Babb (near)(30)	530	108	Apr-Sept	492
	460	108	Apr-July	427

(21) Adjusted for storage in Canyon Ferry and Tiber Reservoirs.

(22) Adjusted for storage in Canyon Ferry, Tiber and Fort Peck Reservoirs.

(29) Adjusted for storage in Canyon Ferry, Tiber, Fort Peck, Buffalo Bill, Boysen and Yellowtail Reservoirs. Sum Yellowstone River near Sidney and Missouri River near Culbertson.

(30) Adjusted for storage in Lake Sherburne.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average

YELLOWSTONE RIVER BASIN

YELLOWSTONE RIVER					
Corwin Springs (at)	2450	130	Apr-Sept	2172	1880
	2100	132	Apr-July	1818	1575
YELLOWSTONE RIVER					
Livingston (near)	2880	135	Apr-Sept		2122
	2440	138	Apr-July		1769
BOULDER RIVER					
Big Timber (at)	470	135	Apr-Sept		347
	450	137	Apr-July		327
STILLWATER RIVER					
Absarokee (near)(25)	760	136	Apr-Sept		558
	650	137	Apr-July		474
CLARKS FORK RIVER					
Belfry (near)	750	129	Apr-Sept		582
	690	130	Apr-July		530
ROCK CREEK					
Red Lodge (near)	146	138	Apr-Sept	123	106
	115	140	Apr-July	96.6	82.1
YELLOWSTONE RIVER					
Billings (at)	5350	135	Apr-Sept	5031	3944
	4700	138	Apr-July	4342	3400
BIG HORN RIVER					
St. Xavier (near)(26)	2500	145	Apr-Sept	2105	1719
	2360	145	Apr-July	2044	1625
LITTLE BIG HORN RIVER					
Lodgegrass (near)(28)	156	127	Apr-Sept		123
	140	128	Apr-July		109
YELLOWSTONE RIVER					
Miles City (at)(27)	8150	139	Apr-Sept		5850
	7350	142	Apr-July		5177
YELLOWSTONE RIVER					
Sidney (near)(27)	8300	136	Apr-Sept		6069
	7500	138	Apr-July		5454

(25) Adjusted for storage in Mystic Lake.

(26) Adjusted for storage in Buffalo Bill, Boysen, Bull Lake and Yellowtail Reservoirs.

(27) Adjusted for storage in Buffalo Bill, Boysen and Yellowtail Reservoirs.

(28) Sum Little Big Horn below Pass Creek and Lodgegrass Creek near Wyola.

Table 1: Summary of Data					Notes
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36
37	38	39	40	41	42
43	44	45	46	47	48
49	50	51	52	53	54
55	56	57	58	59	60
61	62	63	64	65	66
67	68	69	70	71	72
73	74	75	76	77	78
79	80	81	82	83	84
85	86	87	88	89	90
91	92	93	94	95	96
97	98	99	100	101	102

Additional information and notes regarding the data presented in the table above.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average

COLUMBIA RIVER BASIN

KOOTENAI RIVER

Bald Eagle Peak	5700	2/23	143	64.0	47.7	-
Banfield Mountain	5600	2/25	74	26.9	21.0	-
Banfield Mountain Pillow	5600	2/25	SP	22.7	17.0	-
Baree Creek	5500	2/28	120	48.0	37.6	43.5
Baree Midway	4600	2/28	97	38.8	31.3	33.8
Baree Trail	3800	2/27	36	13.0	12.0	8.2
Bear Mountain	5400	2/24	149	61.1	47.3	-
Bristow Creek	3900	2/25	41	14.0	13.3	-
Brush Creek	5000	2/24	37	11.4	10.0	11.7
Brush Creek Timber	5000	2/24	33	10.1	8.9	10.4
Cedar Grove	4100	2/23	33	12.0	13.4	-
Davis Creek	5400	2/22	68	27.6	19.7	-
Fernie	3500	2/26	28	9.2	7.7	8.6
Field	4200	2/28	30	6.6	3.3	5.9
Garver Creek	4250	2/22	36	13.3	10.8	-
Garver Creek Pillow	4250	2/22	SP	10.5	8.4	-
Glacier	4100	2/26	87	28.1	18.2	25.2
Graves Creek	4300	3/02	58	21.4	17.3	17.0
Gray Creek	5100	2/25	69	18.2	8.3	16.0
Halverson Creek	4850	2/24	110	46.2	36.4	-
Hawkins Lake	6450	2/22	78	32.3	21.1	-
Hawkins Lake Pillow	6450	2/22	SP	31.6	18.2	-
Keeler Creek	3300	2/24	37	14.9	16.3	-
Kicking Horse	5400	2/28	54	14.3	8.0	13.4
Kimberley	3800	2/28	29	9.4	4.7	8.0
Lost Soul	4800	2/25	49	17.3	15.2	-
Marble Canyon	5000	2/25	59	16.8	6.0	12.7
Morrissey Ridge	6100	3/01	76	27.9	-	25.6
New Fernie	4100	2/26	52	15.7	11.5	13.6
Poorman Creek	5100	2/23	79	34.6	28.9	-
Poorman Creek Pillow	5100	2/23	SP	32.8	20.1	-
Red Mountain	6000	2/26	60	20.0	13.1	17.4
Sinclair Pass	4500	2/25	27	7.2	3.7	5.6
Stahl Peak	6050	2/26	125	41.1	30.6	-
Sullivan Mine	5100	2/25	51	15.5	8.8	12.4
Upper Elk River	4400	2/25	21	7.1	4.4	7.4
Weasel Divide	5450	3/02	98	37.9	26.4	31.2

SP - Snow pillow observation - water content only.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average

FLATHEAD RIVER

Bassoo Peak	5150	2/25	39	12.6	8.9	10.2
Beaver Lake	5900	3/06	81	28.8	20.6	20.0
Big Creek	6750	2/24	112	47.8	39.0	39.2
Camp Misery	6400	2/25	120	48.7	40.7	41.0
Desert Mountain	5600	2/26	48	16.2	13.3	14.0
Fatty Creek	5500	2/24	62	23.8	20.5	19.6
Griffin Creek Divide	5150	2/24	39	12.8	10.2	11.3
Gunsight Lake	6300	3/06	122	49.4	35.3	36.0
Hell Roaring Divide	5770	2/25	86	31.3	24.3	27.5
Holbrook	4530	2/28	36	11.8	8.8	9.9
Kishenehn	3890	2/28	33	10.4	6.5	9.3
Logan Creek	4300	2/24	29	8.9	6.7	8.2
Marias Pass	5250	2/23	62	24.0	15.6	16.1
Mineral Creek	4000	2/24	60	20.4	18.7	19.1
Noisy Creek	3600	2/25	12	3.6	6.4	-
North Fork Jocko	6330	2/25	122	47.6	36.4	40.4
Spotted Bear Mountain	7000	3/06	54	16.4	15.8	13.6
Trinkus Lake	6100	3/06	134	49.6	41.2	37.0
Twin Creeks	3580	3/06	43	12.5	12.9	11.3
Upper Holland Lake	6200	3/06	135	51.6	32.0	30.4

CLARK FORK RIVER

Black Pine	7100	2/25	39	12.5	9.9	11.6
Black Pine Pillow	7100	2/25	SP	12.5	10.1	11.6
Combination	5600	2/25	15	4.2	3.6	-
Copper Bottom	5200	2/26	46	15.9	-	-
Copper Creek	5700	2/26	57	21.6	11.9	13.9
Copper Lake Creek	6100	2/26	82	32.0	-	-
Cotter Mine	6250	2/26	72	28.8	15.6	15.1
Coyote Hill	4200	2/24	32	11.2	10.8	10.2
El Dorado Mine	7800	2/26	71	22.3	16.5	16.8
Fred Burr Pass	8000	3/03	84	28.4	19.3	22.0
Gold Creek Lake	7200	2/26	53	16.2	11.1	12.6
Heart Lake Trail	4800	2/26	80	28.4	15.8	20.2
Hoodoo Basin	6000	2/26	149	56.2	39.3	45.6
Hoodoo Basin Pillow	6000	3/01	SP	48.6	41.5	-
Hoodoo Creek	5900	2/26	141	51.6	37.7	42.5
Intergaard	6450	3/01	31	8.0	5.4	7.0
Lookout	5250	2/26	108	40.0	31.9	32.3

SP - Snow pillow observation - water content only.



SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average

CLARK FORK RIVER (Continued)

Lubrecht Flume	4800	2/24	18	5.1	-	-
Lubrecht Flume Pillow	4800	2/24	SP	4.3	-	-
Lubrecht Forest No. 3	5450	2/27	23	6.3	5.5	6.6
Lubrecht Forest No. 4	4650	2/28	10	2.0	3.5	3.5
Lubrecht Forest No. 6	4040	2/28	9	2.1	4.0	3.3
Lubrecht Hydroplot	4200	2/24	16	5.1	-	-
North Fork Elk Creek	6250	2/24	34	10.4	-	-
North Fork Elk Creek Pillow	6250	2/24	SP	10.7	10.2	-
Peterson Meadows	7200	3/02	38	10.9	-	-
Peterson Meadows Pillow	7200	3/02	SP	10.8	-	-
Red Lion	7100	3/03	54	15.2	11.6	13.7
Skalkaho Summit	7260	2/23	71	26.2	20.6	22.8
Slide Rock Mountain	7100	2/24	44	15.4	9.2	12.2
Southern Cross	6500	3/01	20	5.7	4.2	6.0
Storm Lake	7780	3/02	47	13.0	9.0	11.2
Stuart Mill	6500	3/01	19	5.4	4.5	5.8
Stuart Mountain	7400	2/26	91	34.2	-	26.6
TV Mountain	6800	2/25	65	21.4	17.7	15.0

BITTERROOT RIVER

Ambrose	6480	2/25	43	12.2	8.8	11.5
East Fork Ranger Station	5400	3/01	26	6.4	5.0	6.3
Gibbons Pass	7100	2/23	72	26.8	18.8	19.5
Lolo Pass	5230	2/25	95	32.4	20.5	29.0
Lost Horse	5940	3/01	97	36.6	27.5	28.0
Moose Creek	6200	2/26	61	19.4	13.8	14.2
Nez Perce Camp	5680	2/24	46	15.2	12.6	12.7
Nez Perce Pass	6570	2/24	51	16.6	13.6	13.8
Saddle Mountain	7940	3/01	84	28.8	21.4	21.7
Saddle Mountain Pillow	7940	3/01	SP	32.5	21.8	-
Savage Pass	6600	2/24	78	28.3	19.8	24.9
Twelvemile Creek	5600	3/02	69	24.6	18.9	-
Twelvemile Creek Pillow	5600	3/02	SP	20.3	16.8	-
Twin Lakes	6510	3/02	120	45.2	33.8	37.2
Twin Lakes Pillow	6400	3/02	SP	45.6	35.3	-

SP - Snow pillow observation - water content only.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average

MISSOURI RIVER BASIN

BEAVERHEAD RIVER

Bloody Dick	7600	2/25	45	12.2	8.8	9.2
Camp Creek	6800	2/24	45	13.3	6.5	7.8
Carter Creek	7400				-	3.8
Dad Creek Lake	8400				11.1	9.7
Elk Horn Springs	7800	3/02	37	9.8	8.1	8.4
Gold Stone	8100	2/25	56	17.1	12.4	12.2
Kilgore	6200	2/26	47	15.6	10.5	8.3
Lakeview Canyon	6930	3/02	53	16.2	5.8	9.7
Lakeview Ridge	7400	3/02	44	13.0	5.5	8.5
Lemhi Pass	7480	2/24	34	9.4	5.2	6.9
Lemhi Ridge	8100	2/24	42	11.4	5.8	-
Sawtelle Mountain	8715	2/25	108	39.5	26.0	-
Trail Creek	7090	2/24	33	9.0	4.8	6.3
White Pine Ridge	8850				3.4	4.0

RUBY RIVER

Branham Lakes	8850	2/25	90	33.1	26.9	-
Clover Meadow	8600				14.8	12.5
Divide	7900				9.3	8.2
Middle Mill Creek	7850	2/25	59	19.4	15.4	-
Notch	8500				15.6	10.8
Smuggler Mine	6960	2/25	39	10.5	9.6	-

BIG HOLE RIVER

Abundance Lake	8800				16.8	15.9
Calvert Creek	6450	2/26	43	12.3	9.6	-
Darkhorse Lake	8600				25.4	22.5
Foolhen	8280				14.8	14.5
Jahnke Lake Trail	7200	2/25	44	11.4	7.5	-
Mudd Lake	7650	2/26	65	22.4	16.2	-
Slag-A-Melt Lake	8750				25.8	-

JEFFERSON RIVER

Berry Meadow	7300	3/01	29	7.6	-	6.7
Copper Mountain	7700	2/28	38	10.6	7.6	8.4
Nez Perce Creek	6500	2/28	14	3.7	4.1	-
Picnic Grounds	6500	3/01	15	3.6	3.6	4.0
Pipestone Pass	7200	2/22	16	3.7	2.0	4.3
Rocker Peak	8000	3/01	56	17.9	12.4	-
Rocker Peak Pillow	8000	3/01	SP	15.9	11.2	-
Uncle Sam Gulch	6500	3/01	28	7.2	6.3	-

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SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average

MADISON RIVER

Big Springs	6500	2/25	75	26.2	18.6	17.9
Black Canyon	7850	2/24	106	39.6	26.8	28.5
Black Moose	8125	2/24	119	47.6	33.8	34.0
Call Road	8050				10.9	8.4
Four Mile	6900	2/22	32	8.0	6.3	6.6
Hebgen Dam	6550	2/27	43	12.6	9.3	10.0
Island Park	6315	2/25	66	20.7	15.1	13.9
Jack Creek	7500	2/23	23	6.6	4.4	4.8
Lake Creek	6100	3/02	39	11.4	6.6	-
Latham Springs	7650	2/24	100	37.4	27.8	27.8
Lion Mountain	8760	2/24	62	20.0	13.5	-
Lion Mountain Pillow	8760	2/24	SP	15.5	10.5	-
Lower Twin	7900	2/22	67	23.1	18.4	15.6
Lucky Dog	6900	2/24	86	32.0	22.2	21.1
Madison Plateau	7750	2/24	74	26.3	18.0	-
Madison Plateau Pillow	7750	2/24	SP	27.8	20.9	-
Meridian Creek	7000	3/03	43	13.4	7.1	-
Norris Basin	7500	2/28	45	13.0	5.0	9.2
North Meadow	7500	2/22	32	8.0	5.1	6.2
Old Road	7250	2/24	93	34.8	25.6	24.3
Poachers Cabin	8000	2/24	98	37.8	27.4	29.0
Potomageton Park	7150	2/27	53	16.2	11.2	12.8
Sentinel Creek	8300	2/27	81	26.3	18.5	20.3
Soap Bogus Divide	7600	3/02	61	20.4	11.7	-
Targhee Pass	7000	2/25	60	18.7	9.9	-
Tepee Creek	8000	3/03	62	21.0	13.1	-
Valley View	6500	2/25	65	22.2	10.1	13.3
West Yellowstone	6700	2/27	52	15.7	9.3	9.8
West Yellowstone Pillow	6700	3/03	SP	14.4	6.6	-
Whiskey Creek	6800	2/24	71	24.6	15.6	-

GALLATIN RIVER

Arch Falls	7350	2/24	41	12.8	13.4	10.0
Bear Basin	8150	2/25	75	25.1	22.0	16.8
Bridger Bowl	7250	2/26	107	35.5	30.7	22.5
Bridger Bowl Pillow	7250	2/26	SP	32.4	29.6	21.8
Carrot Basin	9000	3/02	115	45.2	30.1	-
Carrot Basin Pillow	9000	3/02	SP	32.1	22.8	-
Devils Slide	8100	2/24	66	23.0	24.3	17.9
Hood Meadow	6600	2/24	35	11.2	12.8	7.8
Lick Creek	6860	2/24	34	9.3	10.2	8.7
Lick Creek Pillow	6860	2/24	SP	10.4	9.3	7.1
Little Park	7400	2/25	61	18.3	15.3	12.6
Maynard Creek	6210	2/26	66	20.5	20.8	14.2
Maynard Creek Pillow	6210	2/26	SP	11.9	13.6	-
New World	6700	2/27	44	12.6	12.4	8.6
Shower Falls	8100	2/24	74	27.8	28.3	20.8
Shower Falls Pillow	8100	2/24	SP	22.2	24.5	18.8
Twenty-One Mile	7150	2/27	69	22.7	12.4	15.4

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average

MISSOURI RIVER (Main Stem)

Boulder Mountain	7950	2/24	65	23.0	16.8	13.4
Chessman Reservoir	6200	3/03	12	3.6	0.0	3.4
Deadman Creek	6450	2/26	44	11.8	13.6	9.7
Deadman Creek Pillow	6450	2/26	SP	10.4	11.7	-
Elk Peak	8000	2/25	56	18.3	15.3	13.4
Grasshopper	7000	2/25	20	5.2	4.9	4.3
Kings Hill	7500	2/28	52	14.0	18.1	10.7
Stemple Pass	6600	3/03	41	12.0	5.9	9.2
Ten Mile Lower	6600	3/01	25	6.6	3.6	6.0
Ten Mile Middle	6800	3/01	44	11.5	6.4	8.8
Ten Mile Upper	8000	3/02	50	15.7	9.2	11.5

SUN-TETON-MARIAS RIVERS

Badger Pass	6900	3/06	122	48.0	33.0	31.8
Blue Lake	5900	3/06	84	32.4	21.6	-
Cabin Creek	5200	2/27	27	8.1	3.8	7.0
Five-Bull	5700	3/06	46	13.9	6.7	5.7
Freight Creek	6000	3/06	44	15.2	11.0	14.1
Goat Mountain	7000	2/28	43	14.7	7.6	10.2
Mount Lockhart	6400	3/03	78	26.8	18.2	-
Mount Lockhart Pillow	6400	3/03	SP	24.2	16.1	-
Waldron	5600	3/03	44	17.6	7.8	-
Waldron Pillow	5600	3/03	SP	15.7	9.6	-
Wrong Creek	5700	2/25	51	17.6	10.8	14.3
Wrong Ridge	6800	2/26	71	24.1	15.4	19.4

JUDITH RIVER

Avalanche	7100	3/01	68	19.6	24.0	-
Big Snowy	7150	3/01	68	19.2	-	-
Crystal Lake	6100	3/01	52	13.5	15.8	11.1
Rock Creek	5600	3/01	29	7.4	9.4	7.5
Spur Park	8000	2/26	70	22.8	21.6	16.5
Spur Park Pillow	8000	2/26	SP	21.9	22.7	-

MUSSELSHELL RIVER

Daisy Peak	7600	2/24	35	10.4	9.8	-
Eagle Creek	7000	2/22	43	13.1	15.8	-
Forest Lake	6400	2/22	38	11.1	12.5	-
Haymaker	8050	2/23	38	11.0	11.9	-
Johnson Park	6450	2/24	26	7.4	6.6	-

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SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
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NAME	Elevation				Last Year	Average
<u>MILK RIVER</u>						
Bear Paw Ski Area	5200	3/03	34	9.6	8.6	-
Cypress Park C	4000	2/26	24	7.3	6.6	4.0
Elkwater Lake A	4100	2/25	10	2.4	2.9	2.0
Rocky Boy	4700	3/03	26	7.0	6.0	4.2
Rocky Boy Pillow	4700	3/03	SP	9.2	4.4	-
Val Marie D	2700	2/23	15	3.3	1.5	1.3
Wildhorse B	3450	3/02	13	3.8	1.3	1.5
<u>ST. MARY RIVER</u>						
Hudson Bay Divide	5800	2/24	62	21.3	13.5	16.3
<u>SASKATCHEWAN (BOW) RIVER</u>						
Bow River #1	5100	2/23	33	8.9	4.6	-
Chateau Lawn #8	5700	2/23	41	11.7	6.1	-
Mirror Lake #6	6600	2/23	39	11.8	5.8	-
Mount Eisenhower #10	5000	2/23	29	7.3	2.8	-
Upper Pipestone #2	5300	2/24	36	9.4	4.6	-
<u>UPPER YELLOWSTONE RIVER</u>						
Bald Ridge	7500	2/23	37	10.9	13.0	10.1
Camp Senia	7890	2/26	25	5.2	4.6	4.8
Canyon	7750	3/01	60	17.0	12.6	13.4
Cooke Station	8150	2/23	69	23.5	21.2	15.8
Crevice Mountain	8400	2/22	38	11.0	8.6	7.2
East Entrance	7000	3/01	48	13.5	8.0	9.4
Fisher Creek	9100	2/23	122	47.3	36.2	29.6
Fisher Creek Pillow	9100	2/24	SP	43.5	31.6	-
Grizzly Peak	8400	3/01	55	14.2	12.1	13.1
Independence	8000	2/27	73	24.3	13.8	14.1
Lake Camp	7850	3/01	44	11.8	5.4	8.2
Lupine Creek	7300	2/27	44	12.9	8.3	9.3
Mill Creek	7500	3/01	53	15.1	13.4	-
Monument Peak	9000	2/27	92	31.1	19.4	20.0
Northeast Entrance	7400	3/01	40	11.4	9.0	7.6
Northeast Entrance Pillow	7350	2/28	SP	10.9	9.5	-
Porcupine Ranger Station	6500	2/23	24	6.5	8.4	6.3
Sacajawea	6550	2/26	57	16.4	19.0	10.8
South Fork Shields	8100	2/23	67	23.7	25.8	19.0
Sylvan Pass	7100				10.5	11.6
Thumb Divide	7900	2/27	78	26.7	13.8	19.0
Timberline Creek	8850	2/26	52	13.8	11.0	11.5
West Rosebud	7500	3/03	42	12.9	-	8.8
White Mill	8700	2/23	98	35.9	26.3	20.8

SP - Snow pillow observation - water content only.

INDEX to MONTANA SNOW COURSES and SOIL MOISTURE STATIONS

SNOW COURSES

Measuring Dates 1/2/

Record Begon

Sec. Twp. Range

Elev.

Number

Drainage Basin & Snow Course

COLUMBIA RIVER BASIN

Drainage Basin & Snow Course	Number	Elev.	Sec.	Twp.	Range	Record Begon	Measuring Dates 1/2/	Meas. By 2/
KOOTENAI RIVER								
Bad Eagle Peak	15A11	5700	6	27N	31W	1969	3,4,5,5,6	1
Brandywine Mountain	15A08	5600	4	32N	30W	1969	2,3,4,5,5,6	1
Baree Creek	15B11	4600	36	26N	31W	1966	3,4,5,5,6	2
Baree Creek	15B16	4600	31	26N	30W	1966	3,4,5,5,6	2
Baree Creek	15B15	4600	31	26N	30W	1965	3,4,5,5,6	2
Baree Creek	15A10	3900	2	32N	30W	1969	3,4,5,5,6	1
Baree Creek	15A11	3900	2	32N	30W	1969	3,4,5,5,6	1
Baree Creek	15A12	5000	12	30N	28W	1969	3,4,5,5,6	1
Baree Creek	15A13	5100	25	28N	28W	1969	3,4,5,5,6	1
Baree Creek	15A14	5100	25	28N	28W	1969	3,4,5,5,6	1
Baree Creek	15A15	4200	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A16	4300	1	36N	25W	1969	3,4,5,5,6	1
Baree Creek	15A17	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A18	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A19	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A20	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A21	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A22	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A23	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A24	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A25	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A26	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A27	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A28	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A29	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A30	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A31	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A32	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A33	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A34	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A35	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A36	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A37	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A38	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A39	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A40	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A41	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A42	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A43	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A44	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A45	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A46	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A47	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A48	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A49	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A50	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A51	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A52	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A53	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A54	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A55	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A56	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A57	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A58	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A59	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A60	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A61	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A62	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A63	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A64	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A65	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A66	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A67	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A68	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A69	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A70	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A71	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A72	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A73	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A74	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A75	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A76	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A77	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A78	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A79	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A80	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A81	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A82	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A83	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A84	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A85	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A86	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A87	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A88	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A89	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A90	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A91	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A92	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A93	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A94	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A95	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A96	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A97	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A98	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A99	4400	18	37N	32W	1969	3,4,5,5,6	1
Baree Creek	15A100	4400	18	37N	32W	1969	3,4,5,5,6	1

MISSOURI RIVER BASIN

Drainage Basin & Snow Course	Number	Elev.	Sec.	Twp.	Range	Record Begon	Measuring Dates 1/2/	Meas. By 2/
BEAVERHEAD RIVER								
Beaverhead	13A10	7400	12	8S	14W	1968	3,4,5	1
Beaverhead	13A11	7400	12	8S	14W	1968	3,4,5	1
Beaverhead	13A12	7400	12	8S	14W	1968	3,4,5	1
Beaverhead	13A13	7400	12	8S	14W	1968	3,4,5	1
Beaverhead	13A14	7400	12	8S	14W	1968	3,4,5	1
Beaverhead	13A15	7400	12	8S	14W	1968	3,4,5	1
Beaverhead	13A16	7400	12	8S	14W	1968	3,4,5	1
Beaverhead	13A17	7400	12	8S	14W	1968	3,4,5	1
Beaverhead	13A18	7400	12	8S	14W	1968	3,4,5	1
Beaverhead	13A19	7400	12	8S	14W	1968	3,4,5	1
Beaverhead	13A20	7400	12	8S	14W	1968	3,4,5	1
Beaverhead	13A21	7400	12	8S	14W	1968	3,4,5	1
Beaverhead	13A22	7400	12	8S	14W	1968	3,4,5	1
Beaverhead	13A23	7400	12	8S	14W	1968	3,4,5	1
Beaverhead	13A24	7400	12	8S	14W	1968	3,4,5	1
Beaverhead	13A25	7400	12	8S	14W	1968	3,4,5	1
Beaverhead	13A26	7400	12	8S	14W	1968	3,4,5	1
Beaverhead	13A27	7400	12	8S	14W	1968	3,4,5	1
Beaverhead	13A28	7400	12	8S	14W	1968	3,4,5	1
Beaverhead	13A29	7400	12	8S	14W	1968	3,4,5	1
Beaverhead	13A30	7400	12	8S	14W	1968	3,4,5	1

SOIL MOISTURE STATIONS

COLUMBIA RIVER BASIN

Drainage Basin & Snow Course	Number	Elev.	Sec.	Twp.	Range	Record Begon	Measuring Dates 1/2/	Meas. By 2/
UPPER YELLOWSTONE RIVER (continued)								
Grizzly Peak	10005	8400	26	7S	19E	1961	1,2,3,4,5	1
Independence	10006	7850	21	7S	12E	1960	3,4,5	2
NH Creek	10019	7500	6	7S	11E	1967	3,4,5	1
Monument Peak	10012	8800	16	7S	12E	1967	3,4,5	1
Northeast Entrance	10007	7400	33	9S	14E	1937	1,2,3,4,5,5,6	1
Porcupine R.S.	10003	6500	10	4N	10E	1938	3,4,5	1
Sagehen	10010	6550	36	2N	6E	1960	3,4,5	1
South Fork Shields	10008	8100	13	4N	10E	1965	3,4,5	1
Timberline Creek	9004	8850	10	8S	18E	1961	3,4,5,5,6	1
West Roubidou	9002	7500	9	7S	16E	1960	3,4	4
White Hill	9008	8700	18	9S	15E	1966	3,4,5,5,6	1

KOOTENAI RIVER

Barce Trail	15815H	3800	5	25N	30W	1964	Monthly	2
Murphy Lake R.S.	14A10H	3000	5	34N	25W	1964	Monthly	2
Raven R.S.	15A02H	3050	2	26N	29W	1964	Monthly	2

FLATHEAD RIVER

Georgetown	13A02H	5600	24	31N	19W	1956	Monthly	1
Marion Pass	13A03H	5250	34	30N	14W	1950	Monthly	6

CLARK FORK RIVER

Agencies and Organizations Cooperating in Montana Snow Surveys

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Region I, Missoula, Montana
Montana Forests and Ranger
Districts

U. S. Geological Survey
Helena, Montana
Portland, Oregon

U. S. Army Corps of Engineers
Portland, Oregon
Seattle, Washington
Walla Walla, Washington
Omaha, Nebraska

U. S. Indian Irrigation Service
St. Ignatius, Montana

U. S. Weather Bureau
Helena, Montana
Portland, Oregon
Kansas City, Missouri

U. S. Bureau of Sports Fisheries
and Wildlife
Red Rock Lakes Refuge
Monida, Montana

U. S. Bureau of Reclamation
Billings, Montana
Boise, Idaho

U. S. Bonneville Power Administration
Portland, Oregon

U. S. Soil Conservation Service
Montana, Wyoming, Idaho

Soil and Water Conservation Districts
Montana Counties

U. S. National Park Service
Yellowstone National Park
Glacier National Park

Montana Power Company
Butte, Montana

Montana Water Resources Board
Helena, Montana

North Montana Branch Station
Agricultural Experiment Station
Havre, Montana

Montana State University
Agricultural Experiment Station
Bozeman, Montana

University of Montana
School of Forestry
Missoula, Montana

Water Rights Branch, Dept. of
Lands and Forests
Victoria, British Columbia

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